Code No: **RT41054**

R13

Set No. 1

IV B.Tech I Semester Supplementary Examinations, July/Aug - 2021 SOFTWARE TESTING METHODOLOGIES

(Computer Science and Engineering)

Time: 3 hours Max. Marks: 70

Question paper consists of Part-A and Part-B Answer ALL sub questions from Part-A Answer any THREE questions from Part-B

PART-A (22 Marks)

		FARI-A (22 Marks)	
1.	a)	What are states of a bug? Explain.	[3]
	b)	How to verify code? Explain.	[3]
	c)	What are various kinds of loops? Explain.	[4]
	d)	What is alpha testing? Explain.	[4]
	e)	What are quality factors? Explain.	[4]
	f)	Write a note on object oriented testing?	[4]
		$\underline{\mathbf{PART-B}} \ (3x16 = 48 \ Marks)$	
2.	a)	Take a project and identify the test activities according to SDLC phases.	[8]
4 .	b)	What are evolution phases of software testing? Explain.	[8]
	0)	what are evolution phases of software testing: Explain.	[o]
3.	a)	How to verify requirements and objectives? Explain in detail.	[8]
	b)	A program takes as input a string(5-20 characters) and a single character and	
		checks whether the single character is present in the string or not. Design test	
		cases for this program using BVC, robust testing, and worst case testing	
		methods.	[8]
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4.	a)	Explain in detail about graph matrices.	[8]
	b)	Take a small project and apply all the static testing techniques on its SRS, SDD	F01
		and code.	[8]
5.	a)	Briefly explain about decomposition-based integration.	[8]
	b)	Discuss about regression testing techniques.	[8]
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6.	a)	What is test case prioritization? Explain its types.	[8]
	b)	Distinguish between execution slice and dynamic slice with examples.	[8]
7.	a)	Explain the guidelines for automated testing. Write the advantages of automated	[8]
		testing.	
	b)	Discuss the challenges in testing for web based software.	[8]